

Shaft tolerances and permissible speeds

Basic bearing insert	Shaft dia.		Max speed rev/ min	High loads - high speeds				Max speed rev/ min	Normal applications				Max speed rev/ min	Light loads - low speeds			
	mm	inches		Shaft tolerance ISO h6					Shaft tolerance ISO h7					Shaft tolerance ISO h9			
				0.001mm units		0.0001 inch units			0.001mm units		0.0001 inch units			0.001mm units		0.0001 inch units	
				high	low	high	low		high	low	high	low		high	low	high	low
1017	12-17	½-1¼ ₁₆	7000	0	-11	0	-4	5000	0	-18	0	-7	2000	0	-43	0	-17
1020	20	¾	6700	0	-13	0	-5	4200	0	-21	0	-8	1700	0	-52	0	-20
1025	25	1⅜-1	6250	0	-13	0	-5	3600	0	-21	0	-8	1350	0	-52	0	-20
1030	25-30	⅞-1¼	5300	0	-13	0	-5	3100	0	-21	0	-8	1100	0	-52	0	-20
1035	30-35	1⅞-1⅞ ₁₆	4500	0	-16	0	-6	2700	0	-25	0	-10	900	0	-62	0	-24
1040	35-40	1⅞-1⅞ ₁₆	4000	0	-16	0	-6	2400	0	-25	0	-10	750	0	-62	0	-24
1045	40-45	1½-1¾	3700	0	-16	0	-6	2200	0	-25	0	-10	600	0	-62	0	-24
1050	45-50	1⅞-2	3400	0	-16	0	-6	1950	0	-25	0	-10	500	0	-62	0	-24
1055	50-55	1⅞-2⅜ ₁₆	3100	0	-19	0	-7	1800	0	-30	0	-12	450	0	-74	0	-29
1060	55-60	2⅞-2⅞ ₁₆	2800	0	-19	0	-7	1600	0	-30	0	-12	400	0	-74	0	-29
1065	65	2½	2600	0	-19	0	-7	1500	0	-30	0	-12	350	0	-74	0	-29
1070	60-70	1⅞-2⅞ ₁₆	2450	0	-19	0	-7	1400	0	-30	0	-12	300	0	-74	0	-29
1075	65-75	2⅞ ₁₆ -2⅞ ₁₆	2300	0	-19	0	-7	1300	0	-30	0	-12	280	0	-74	0	-29
1080	75-80	2⅞ ₁₆ -3¼	2150	0	-19	0	-7	1200	0	-30	0	-12	250	0	-74	0	-29
1085	80-85	3⅜ ₁₆ -3⅞ ₁₆	2000	0	-22	0	-9	1100	0	-35	0	-14	220	0	-87	0	-34
1090	85-90	3⅞ ₁₆ -3½	1900	0	-22	0	-9	1050	0	-35	0	-14	200	0	-87	0	-34
3095	95-100	3 ⅞ ₁₆ -4	1600	0	-22	0	-9	1000	0	-35	0	-14	180	0	-87	0	-34

For most applications the standard set screw lock is more than satisfactory. Whenever eccentric collar units are used it is recommended that shaft tolerances in the high loads column be adopted. Whenever taper adapter sleeve locking arrangements are used, shaft tolerances in the light loads column can be adopted. When operating conditions are very severe (for example, in case of heavy vibration or shock) a light interference fit may be required between the shaft and bearing bore diameter.

Housing tolerances for bearing units - series FC, MFC, SLC and MSC

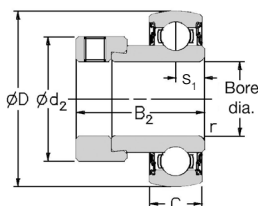
Bearing unit reference	Housing tolerance	
	Stationary housing	Rotating housing
SLC MSC	ISO H7	ISO N7
FC MFC	ISO H7	ISO H7

Radial Internal Clearance (RIC)

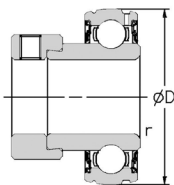
Radial Internal Clearance	Bearing Type
C3	Standard Self-Lube® bearing series
C4	Taper Sleeve Locking bearing series
C5	HLT bearing series

Self-Lube® bearing inserts

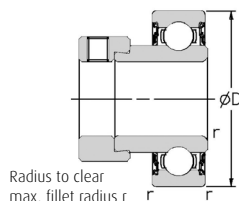
With spherical outside diameter, non-re-greaseable outer ring and eccentric collar lock



With spherical outside diameter, re-greaseable outer ring and eccentric collar lock



With parallel outside diameter
and eccentric collar lock

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Please check availability